

MAY. 23. 2003 11:38AM

TTC-PA 650-326-2422

NO. 0967 P. 14

PTO/SB/05A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1448A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1

of 21

Complete If Known

Application Number	09/724,567
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1647
Examiner Name	Christopher Nichols
Attorney Docket Number	015270-005811US

U.S. PATENT DOCUMENTS

Examiner	Cite No.	Document Number Number Kind Code ³ (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
CD	340	2002/0162129 A1	10-31-2002	Lannfelt	
	326	2002/0136718 A1	09-26-2002	Raso	
	325	2001/0102261 A1	08-01-2002	Raso	
	306	6,417,178 B1	07-09-2002	Klunk et al.	
	342	2002/0009445 A1	01-24-2002	Du et al.	
	267	6,284,171 B2	09-25-2001	McMichael	
	234	6,284,221 B1	09-04-2001	Schenk, et al.	
	300	2001/0018053 A1	08-30-2001	McMichael	
	230	6,262,335 B1	07-17-2001	Hsiao et al.	
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	231	6,114,133	09-05-2000	Seubert et al.	
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	221	5,989,566	11-23-1999	Cobb et al.	
	2	5,958,883	09-28-1999	Snow	
	3	5,955,317	09-21-1999	Suzuki et al.	
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	348	5,935,927	08-10-1999	Vitek et al.	
	3	5,877,399	03-02-1999	Hsiao et al.	
	6	5,869,093	02-09-1999	Weiner et al.	
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	8	5,854,204	12-29-1998	Findeis et al.	
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	10	5,849,298	12-15-1998	Weiner et al.	
	321	5,837,672	11-17-1998	Schenk et al.	
	11	5,837,473	11-17-1998	Maggio et al.	
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CD	197	5,744,368	04-28-1998	Goldhaber et al.	

Examiner
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Considered

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NO. 0967 P. 15

PTO/SB/08A (10-01)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 2

of 21

Complete If Known

Application Number	09/724,567
Filing Date	November 29, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1647
Examiner Name	Christopher Nichols
Attorney Docket Number	015270-005911US

211	5,736,142	04-07-1998	Sette et al.	
15	5,733,547	03-31-1998	Weiner et al.	
16	5,688,661	11-18-1997	Solomon	
17	5,679,348	10-21-1997	Nesburn et al.	
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19	5,641,474	06-24-1997	Hafer et al.	
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23	5,585,100	12-17-1996	Mond et al.	
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34	4,666,829	05-19-1987	Glenner et al.	

U.S. PATENT DOCUMENTS

CITATIONS					
Examiner	Cite No. ¹	Document Number	Filing Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
206	60/234,400	12-08-2000	Holtzman et al.		
207	60/234,436	12-08-2000	Holtzman et al.		
205	60/234,842	11-28-2000	Challouf et al.		
205	60/184,801	02-24-2000	Holtzman et al.		

Examiner Signature	<i>G. Nichols</i>	Date Considered	7/11/03
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EXAMINER: Initial reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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NO. 0967 P. 16

PTO/SB/01A (10-01)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1446A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 3 of 21

Complete if Known

Application Number	09/724,567
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1847
Examiner Name	Christopher Nichols
Attorney Docket Number	015270-005911US

282	00/109,007	12-09-1999	Chen
243	00/458,604	11-28-1999	Chaffour et al.
285	00/441,180	11-18-1999	Soleman et al.
290	00/100,293	03-01-2000	Rasmussen et al.

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code ¹	Number ²	Kind Code ³ (if known)				
CS	343	EP	1 172 378	A1	01-16-2002			
	35	EP	911 038	A2	04-28-1999			
	36	EP	888 918	A2	10-07-1998			
	37	EP	863 211	A1	09-08-1998			
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	41	EP	666 080	A1	08-09-1996			
	42	EP	652 982	B1	12-16-1998			
	43	EP	639 081	B1	11-03-1999			
	44	EP	613 007	A2	08-31-1994			
	45	EP	594 607	B1	08-27-1997			
	46	EP	561 087	B1	08-04-1999			
	47	EP	528 511	B1	05-28-1997			
	48	EP	506 785	B1	03-15-2000			
	49	EP	451 700	A1	10-16-1991			
	50	EP	440 619	B1	01-24-1998			
	51	EP	359 783	B1	11-29-1995			
	52	EP	276 723	B1	12-08-1993			Yes
	187	EP	783 104	A1	07-08-1997			
	351	WO	02/34878	A2	05-02-2002			
	352	WO	02/34777	A1	05-02-2002			
	341	WO	02/03911	A2	04-07-2001			
	344	WO	01/90182	A2	11-29-2001			
	348	WO	01/77167	A2	10-18-2001			
	294	WO	01/62801	A2	08-30-2001			
	301	WO	01/62284	A2	03-01-2000			
	298	WO	01/42306	A2	05-14-2001			

Examiner Signature

Date Considered

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NO. 0967 P. 17

PTO/SB/08A (10-01)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 4

of

21

Complete if Known

Application Number	09/724,667
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1647
Examiner Name	Christopher Nichols
Attorney Docket Number	015270-005911US

243	WO	01/39798	A2	06-07-2001	
199	WO	00/77178	A1	12-21-2000	
322	WO	00/72880	A2, A3	12-07-2000	
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324	WO	00/72870	A1	12-07-2000	
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188	WO	00/43049	A1	07-27-2000	
53	WO	99/60024	A1	11-25-1999	
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56	WO	99/08066	A2	02-11-1999	
57	WO	99/27949	A1	08-10-1999	
58	WO	99/27944	A1	06-10-1999	
59	WO	99/27911	A1	08-10-1999	
331	WO	99/06545	A2	11-02-1999	
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60	WQ	98/44955	A1	10-15-1998	
61	WO	98/07850	A2	02-26-1998	
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66	WQ	95/31898	A1	11-30-1995	
200	WO	95/12815	A1	05-11-1995	
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69	WO	95/05853	A1	03-02-1995	
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72	WO	94/01772	A1	01-20-1994	
73	WO	93/21950	A1	11-11-1993	
74	WQ	93/16724	A1	09-02-1993	
75	WO	93/15760	A1	08-18-1993	

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NO. 0967 P. 18

PTO/SB/08A (10-01)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 5 of 21

Complete if Known

Application Number	09/724,567
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1647
Examiner Name	Christopher Nichols
Attorney Docket Number	015270-005911US

76	WO	93/14200	A1	07-22-1993				
205	WO	93/04194	A1	03-04-1993				
77	WO	93/02189	A1	02-04-1993				
78	WO	92/13089	A1	08-06-1992				
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80	WO	92/08187	A1	04-16-1992				
81	WO	91/19810	A1	12-26-1991				
82	WO	91/16819	A1	11-14-1991				
83	WO	91/12816	A1	09-05-1991				
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88	WO	89/06242	A1	07-13-1989				
89	WO	89/08889	A1	07-27-1989				
90	WO	89/03667	A1	05-05-1989				
91	WO	88/10120	A1	12-29-1988				
92	GB	2 220 211	A	01-04-1990				
93	GB	2 335 192	A	09-15-1990				

Examiner
SignatureDate
Considered

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NO. 0967 P. 19

PTO/SB/083 (10-01)

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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/724,567
		Filing Date	November 28, 2000
		First Named Inventor	Dale B. Schenk
		Art Unit	1647
		Examiner Name	Christopher Nichols
Sheet 6 of 21	Attorney Docket Number	015270-005911US	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
ESW	94	ANDERSEN et al., "Do nonsteroidal anti-inflammatory drugs decrease the risk for Alzheimer's disease?" <i>Neurology</i> , 45:1441-1445 (1995).	<input checked="" type="checkbox"/>
	95	Associated Press, "Immune cells may promote Alzheimer's, a study finds," <i>The Boston Globe</i> (4/13/95).	<input type="checkbox"/>
	176	BARD et al., "Peripherally administered antibodies against amyloid β -peptide enter the central nervous system and reduce pathology in a mouse model of Alzheimer disease," <i>Nature Medicine</i> , 6(8):916-919 (2000).	<input type="checkbox"/>
	228	BARROW, et al., "Solution Conformations and aggregational Properties of Synthetic Amyloid Beta-Peptides of Alzheimer's Disease. Analysis of Circular Dichroism Spectra" <i>J. Mol. Biol.</i> , 225(4): 1075-1093 (1992).	<input type="checkbox"/>
	96	BAUER et al., "Interleukin-6 and α -2-macroglobulin indicate an acute-phase state in Alzheimer's disease cortices," <i>FEBS Letters</i> , 285(1):111-114 (1991).	<input type="checkbox"/>
	239	BEASLEY, "Alzheimer's traced to proteins caused by aging," <i>Reuters</i> , April 20, 2001 7:56 PM ET.	<input type="checkbox"/>
	204	BERCOVICI et al., "Chronic intravenous injections of Antigen Induce and Maintain Tolerance in T Cell Receptor-Transgenic Mice," <i>Eur. J. Immunol.</i> , 29:345-354 (1999).	<input type="checkbox"/>
	212	BICKEL et al., "Site Protected, Cationized Monoclonal Antibody Against Beta Amyloid as a Potential Diagnostic Imaging Technique for Alzheimer's Diseases," <i>Soc. for Neuroscience Abstracts</i> 18:764 (1992).	<input type="checkbox"/>
	97	BLASS, John P., "Immunologic Treatment of Alzheimer's Disease," <i>New England J. Medicine</i> , 341(22):1894 (1999).	<input type="checkbox"/>
	98	BODMER et al., "Transforming Growth Factor-Beta Bound to Soluble Derivatives of the Beta Amyloid Precursor Protein of Alzheimer's Disease," <i>Biochem. Biophys. Res. Comm.</i> , 171(2):890-897 (1990).	<input type="checkbox"/>
	99	BORCHELT et al., "Accelerated Amyloid Deposition in the Brains of Transgenic Mice Coexpressing Mutant Presenilin 1 and Amyloid Precursor Proteins," <i>Neuron</i> , 19: 939-945 (1997).	<input type="checkbox"/>
ESW	100	BORIS-LAWRIE et al., "Recent advances in retrovirus vector technology," <i>Cur. Opin. Genet. Develop.</i> , 3: 102-109 (1993).	<input type="checkbox"/>

Examiner Signature	<i>G. Mue</i>	Date Considered	7/11/03
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PTO/SB/OSB (10-01)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet

7

of

21

Complete if Known

Application Number	08/724,567
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1847
Examiner Name	Christopher Nichols
Attorney Docket Number	015270-005911US

SPD	101	BRICE et al., "Absence of the amyloid precursor protein gene mutation (APP717: Val->Ile) in 85 cases of early onset Alzheimer's disease," <i>J. Neurology, Neurosurg. Psychiatry</i> , 56:112-115 (1993).	<input type="checkbox"/>
	327	CAMERON, "Recent Advances in Transgenic Technology," <i>Molecular Biotechnology</i> , 7:253-265 (1997).	<input type="checkbox"/>
	285	CAPUTO et al., "Therapeutic approaches targeted at the amyloid proteins in Alzheimer's disease," <i>Clin. Neuropharm.</i> , 15:414A-414B (1992).	<input type="checkbox"/>
	224	Center for Biologics Evaluation and Research, U.S. Food and Drug Administration, Thimerosal in Vaccines (Mercury in Plasma-Derived Products), web site contents found at: http://www.fda.gov/cber/vaccines/thimerosal.htm, last updated May 16, 2002.	<input type="checkbox"/>
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	286	CHAPMAN, PAUL F., "Model behavior," <i>Nature</i> , 406:915-916 (2000).	<input type="checkbox"/>
	222	Chemical Abstract database, Abstract of "Injection of Newborn Mice with Seven Chemical Adjuvants to Help Determine Their Safety in Use in Biologicals," Chemical Abstract database. (Publication date unknown.)	<input type="checkbox"/>
	332	CHEN et al., "Neurodegenerative Alzheimer-like pathology in PDAPP 717V->F transgenic mice," <i>Progress in Brain Research</i> , Van Leeuwen et al. Eds, 117:327-337 (1998).	<input type="checkbox"/>
	307	CHEN et al., "A learning deficit related to age and beta-amyloid plaques in a mouse model of Alzheimer's disease," <i>Nature</i> , 400(6815):975-9 (2000).	<input type="checkbox"/>
	213	CHEN et al., "An Antibody to β Amyloid Precursor Protein Inhibits Cell-substratum Adhesion in Many Mammalian Cell Types," <i>Neuroscience Letters</i> , 125:223-226 (1991).	<input type="checkbox"/>
	302	CHUNG et al., "Uptake, Degradation, and Release of Fibrillar and Soluble Forms of Alzheimer's Amyloid β -Peptide by Microglial Cells," <i>J. Biol. Chem.</i> , 274(48):32301-32308 (1999).	<input type="checkbox"/>
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7/11/03

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 8 of 21

Complete if Known

Application Number	09/724,667
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1647
Examiner Name	Christopher Nichols
Attorney Docket Number	015270-005911US

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/724,567
		Filing Date	November 28, 2000
		First Named Inventor	Dale B. Schenk
		Art Unit	1647
		Examiner Name	Christopher Nichols
Sheet 9 of 21	Attorney Docket Number	015270-005911US	

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Sheet 10 of 21

Complete If Known

Application Number	08/724,567
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1647
Examiner Name	Christopher Nichols
Attorney Docket Number	015270-005911US

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/724,567
		Filing Date	November 28, 2000
		First Named Inventor	Dale B. Schenk
		Art Unit	1647
		Examiner Name	Christopher Nichols
		Attorney Docket Number	015270-005911US
Sheet	11	of	21

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Examiner Signature		Date Considered	7/11/03
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Sheet 12 of 21

Complete if Known

Application Number	09/724,567
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1647
Examiner Name	Christopher Nichols
Attorney Docket Number	015270-005911US

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Examiner Signature	<i>[Signature]</i>	Date Considered	7/11/03
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/724,567
		Filing Date	November 28, 2000
		First Named Inventor	Dale B. Schenk
		Art Unit	1647
		Examiner Name	Christopher Nichols
Sheet 13 of 21	Attorney Docket Number	015270-005911US	

50	128	KAWABATA et al., "Amyloid plaques, neurofibrillary tangles and neuronal loss in brains of transgenic mice overexpressing a C-terminal fragment of human amyloid precursor protein," <u>Nature</u> , 354:476-478 (1991).	—
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↓	134	LOPEZ et al., "Serum auto-antibodies in Alzheimer's disease," <u>Acta. Neurol. Scand.</u> , 84:441-444 (1991).	—
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Examiner Signature		Date Considered	7/11/03
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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/724,567
		Filing Date	November 28, 2000
		First Named Inventor	Dale B. Schenk
		Art Unit	1847
		Examiner Name	Christopher Nichols
Sheet 14 of 21	Attorney Docket Number	015270-005911US	

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Examiner Signature	<i>G. Nichols</i>	Date Considered	7/11/03
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		Filing Date	November 28, 2000
		First Named Inventor	Dale B. Schenk
		Art Unit	1647
		Examiner Name	Christopher Nichols
Sheet 15 of 21	Attorney Docket Number	015270-005911US	

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Sheet 16 of 21

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Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1847
Examiner Name	Christopher Nichols
Attorney Docket Number	015270-005911US

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/724,567
		Filing Date	November 28, 2000
		First Named Inventor	Dale B. Schenk
		Art Unit	1647
		Examiner Name	Christopher Nichols
		Attorney Docket Number	015270-005911US
Sheet	17	of	21

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**INFORMATION DISCLOSURE
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Sheet 18 of 21

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Application Number	09/724,567
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1847
Examiner Name	Christopher Nichols
Attorney Docket Number	015270-005911US

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Sheet 19 of 21

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Application Number	09/724,567
Filing Date	November 28, 2000
First Named Inventor	Dale B. Schenk
Art Unit	1647
Examiner Name	Christopher Nichols
Attorney Docket Number	015270-005911US

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		Filing Date	November 28, 2000
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		Art Unit	1647
		Examiner Name	Christopher Nichols
		Attorney Docket Number	015270-008911US
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PTO/SB/08B (10-01)

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Substitute for form 1449B/PTO		Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/724,567
		Filing Date	November 28, 2000
		First Named Inventor	Dale B. Schenk
		Art Unit	1847
		Examiner Name	Christopher Nichols
Sheet 21 of 21	Attorney Docket Number	015270-005911US	

	292	YAMAGUCHI et al., Diffuse plaques associated with astroglial amyloid β protein, possibly showing a disappearing stage of senile plaques," <u>Acta Neuropathol.</u> , 95:217-222 (1998).	
	290	YOUNKIN, "Amyloid β vaccination: reduced plaques and improved cognition," <u>Nature Medicine</u> , 7:18-19 (2001).	

Examiner Signature		Date Considered	7/11/03
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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/724,587
		Filing Date	November 28, 2000
		First Named Inventor	Schenk, Dale B.
		Art Unit	1847
		Examiner Name	Christopher Nichols
		Attorney Docket Number	015270-005911US
Sheet	1	of	1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
CN	349	Check, "Battle of the Mind," <u>Nature</u> , 422:370-372 (March 2003).	
CN	350	Nicoll et al., "Neuropathology of human Alzheimer's disease after immunization with amyloid- β peptide: a case report," <u>Nature Medicine</u> , 9(4):448-452 (April 2003).	

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